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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,911	03/30/2004	Taku Nagase	250929US6X	3172 .
	7590 02/06/2007 AK MCCLELLAND 1	EXAMINER		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			GELIN, JEAN ALLAND	
ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
			2617	
		LANGE CONTROL		VACODE
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MON	THE	02/06/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

·	Application No.	Applicant(s)					
Office Action Summers	10/811,911	NAGASE, TAKU					
Office Action Summary	Examiner	Art Unit					
	Jean A. Gelin	2617					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 30 Ma	arch 2004						
	action is non-final.						
3) Since this application is in condition for allowan		secution as to the merits is					
closed in accordance with the practice under E	•						
Disposition of Claims	reputto Quayto, 1000 G.B. 11, 40	0.0.210.					
4) Claim(s) <u>1-4</u> is/are pending in the application.							
<u> </u>	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-4</u> is/are rejected.	•						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner	·.						
10) The drawing(s) filed on is/are: a) □ acce	epted or b) objected to by the E	Examiner.					
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
I) ⊠ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413)							
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te					
B) Information Disclosure Statement(s) (PTO/SB/08)	atent Application						
Paper No(s)/Mail Date 6)							

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Kelton et al. (US 5,926,503).

Regarding claims 1 and 3, Kelton teaches a receiving apparatus (fig. 1) comprising: a rake reception section (112) to combine and output a plurality of reception signals obtained via different transmission paths (fingers output signals to combining means 116, col. 4, lines 6-14); a plurality of correlation integrators (211 and 212, col. 4, lines 15-19); and a path searcher (114) to search for the plurality of reception signals based on a correlative integration value calculated by said correlation integrator with respect to a reception signal (i.e., the integrator calculates data received from the output of the despreader, col. 4, lines 31-41), wherein said path searcher divides said plurality of correlation integrators (searcher 114 divides the integrators within the finger as integrator 211 and integrator 212) into groups in correspondence with the number of base stations to communicate with, assigns a base station to each of the groups, and controls said correlation integrators in each group so as to calculate a correlative integration value with respect to a reception signal from an assigned base station (col. 4, line 6 to col. 5, line 65 and col. 9, lines 12-55).

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kelton et al. (US 5,926,503) in view of Madhow et al. (US 6,175,587).

Regarding claims 2 and 4, Kelton teaches all the limitations above except the process of soft hand-over when the searcher divides the correlation integrators.

However, the preceding limitation is known in the art of communications. Madhow teaches a radiotelephone having a rake receiver (such as the one disclosed by Kelton), the receiver circuits of the Rake receiver are assigned to sectors which are in soft handoff; in soft handoff the radiotelephone is in radio communication with at least two base stations, and each base station transmits the same data to the radiotelephone simultaneously (col. 4, lines 32-65). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to implement the technique of Madhow within the system of Kelton in order that Rake receiver fingers are assigned not only for the purpose of combining multipath, but also for the purpose of measuring interference parameters, and interference is suppressed on a finger by finger basis.

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Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Nakagawa	US 2005/0147064	07/07/2005
Kakehi	US 7,133,439	11/07/2006
Kenney et al.	US 6,055,264	04/25/2000
Tomiyoshi et al.	US 6,628,733	09/30/2003
Keskitalo et al.	US 5,887,021	03/23/1999
Jitsukawa et al.	US 2003/0012267	01/16/2003

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean A. Gelin whose telephone number is (571) 272-7842. The examiner can normally be reached on 9:30 AM to 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on (571) 272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JGelin February 1, 2007 JEAN GELIN PRIMARY EXAMINER